

SRIJA MADARAPU

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EDUCATION

University of Southern California

Los Angeles , United States

Master of Science

January 2023-August 2025

Course Work : Analysis of Algorithms,Multimedia and System Design,Robotics, Computer Graphics,3D Graphics and Rendering

Kakatiya Institute of Technology & Science

Telangana , India

Bachelor of Technology: Information Technology

January 2016-December 2020

EXPERIENCE

KINTSUGI GLOBAL INC

Summer Intern (3D Character Animator)

June 2024-Present

- Modeled a unique chatbot avatar character with client specifications.Implemented animation techniques to bring the avatar to life, enhancing user engagement and interaction.Ensured seamless integration of the avatar into the chatbot platform, optimizing user experience and functionality.Collaborated closely with cross-functional teams including UX/UI designers, developers, and project managers to meet project milestones and objectives.

USC Institue of Creative Technologies

Student Volunteer

May 2024-Present

- Actively researching and learning about surface normal reconstruction using polarization imaging. This involves analyzing the interaction of polarized light with surfaces to extract information about their orientation. I'm exploring techniques like capturing images with a polarizing filter at varying angles to capture intensity variations.

USC ACM Siggraph Student Chapter

Dec 2023-present

Industry Relations

- As the Industry Relations Coordinator for the SIGGRAPH student chapter, I am dedicated to facilitating meaningful collaborations and opportunities for students to engage with professionals in the fields of computer graphics and interactive techniques.

TATA Consultancy Services

Client : Pepsico

Software Engineer/Developer

January 2020-December 2022

- Developer: Developed & Managed successful RPA implementation across the rpa life cycle from design to deployment. Worked on automating some of the functionalities of SAP application using UiPath. Collaborated with different clients to find processes that can automated.

RPA SAP BASIS & Functional Checkouts

- A BOT was configured to perform a series of system level health check validation to ensure there is no potential data loss post the maintenance window.BOT helps in reduction of manual error and turn around time by 65% for one checkout activity.For BASIS Checkouts above 50+ systems are automated for all the regions.For Funtional Chekouts above 40 different modules are Implemented across different regions.

ACADEMIC PROJECTS

Virtual Garden(Present)

- Implementing virtual worlds using industry-standard software. By utilizing Blender for intricate modeling and SpeedTree for realistic vegetation creation including various types of flowers.

Civic Vision(Present)

- An 'immersive google map' using Google's Geospatial Creator.A AR application that pins the descriptions of the projects and events going around us.Being Able to locate all the new sites on the map in 3D.Giving the general public transparency about projects.Allowing people to source opinions on different project happening around them/world.

Stero Rendering & Stero Raytracing

- In this project, we implemented stereo rendering, ray tracing, and simplex noise, building on our Phong shading algorithm. We aimed to make the image look more immersive. Stereo rendering enhanced the scene's depth, ray tracing brought in accurate lighting, and simplex noise added realism to the material.

Robotic Hand Path Planning

- Engaged in a comprehensive project aimed at understanding the mechanics and functionalities of robotic arms. Utilized various algorithms, including Kalman filter and Rapidly-exploring Random Trees (RRT), to develop path-planning strategies ensuring collision-free movement of objects within the robotic arm's workspace.

Searching and Indexing Video/Audio

- This project is focused on advancing understanding and techniques in video and audio processing. Followed different methodologies, including color histogram generation, audio frequency analysis, and machine learning model training, to extract meaningful insights and enhance processing accuracy. Identified that hashing the average feature values of individual frames yielded the highest accuracy among various approaches tested.

SKILLS

Technical skills : C++,C ,Python,Uipath,RPA,Java,.net,ros,MySQL,Microsoft office,Blender 3D,WebGL,Unity

Langugaes : English/Telugu/Hindi

Certification : UiPath Certified RPA Developer Foundation course

PUBLICATIONS

2019 Third International conference on I-SMAC (IoT in Social, Mobile, Analytics and Cloud) (I-SMAC)

Modified AES using Dynamic S-Box and DNA Cryptography This paper is a modified version AES in DNA cryptography which is faster in terms of computing and resists cryptographic attacks